

Week 1 Practice items

Section 1: Please use these questions to practice your basic skills of the concepts from Week 1 instructional videos.

1. Fill in the blanks by writing an integer to describe each situation:

- a. A decrease in profits of \$300 _____
- b. A positive charge of 6 _____
- c. A withdrawal of twenty dollars _____
- d. 56 meters below sea level _____

2. Complete the following:

- a. integer: +8
opposite: _____
absolute value: _____
- b. integer: _____
opposite: -2
absolute value: _____

3. Find each sum or difference:

- a. $17 + (-6) =$
- b. $-12 + (-8) =$
- c. $-10 - 6 =$
- d. $12 - (-9) =$

4. Find each product or quotient:

- a. $-10 \times 7 =$
- b. $-8 \times (-20) =$
- c. $-121 \div (-11) =$
- d. $20 \div (-5) =$

Section 2: In the following section, you will use your basic understanding of the above math skill and apply them into a story. You may use drawings, [virtual manipulatives](#) and previous course materials to assist you.

5. Katherine is very interested in cryogenics (the science of very low temperatures). With the help of her science teacher, she is doing an experiment on the effect of low temperatures on bacteria. She cools one sample of bacteria to a temperature of -51°C and another to -76°C . What was the temperature difference in the two experiments?
 - a. 25
 - b. 127
 - c. -25
 - d. 127

6. The dinner check was \$78.00. If Erin leaves a 20% tip, how much will the tip be?

7. You owe \$225 on your credit card. You make a \$55 payment and then purchase \$87 worth of clothes at the mall. What is the integer that represents the balance owed on the credit card?
- 367
 - 267
 - 257
 - 367
8. A monkey sits on a limb that is 25 ft above the ground. He swings up 10 ft, climbs up 6 ft more, and then jumps down 13 ft. How far off the ground, is the monkey now? Write an equation to find the solution.
9. In golf, the average score a good player should be able to achieve is called “par”. Par for the whole course is calculated by adding up the par scores for each hole. Scores in golf are often expressed at some number either greater than or less than par. Ms. Floop is having a pretty good day at the Megalopolis City Golf Club. Her score so far after 15 holes is -3. If par for 15 holes is 63, what is her score?
- 63
 - 66
 - 60
 - 65